FILE #10-67

CONFIDENTIAL

Declass Review by NGA.

13 April 1967

25X1 [redacted]

P.O. Box 8043
Southwest Station
Washington, D. C.

25X1 Subject: [redacted] Monthly Report, March 31, 1967

Gentlemen:

Enclosed herewith are two (2) copies of the first monthly report for this project (9618), prepared in accordance with the requirements of Specification DB-1001.

Three (3) copies of the report are being forwarded directly to the Technical Representative.

[redacted] 25X1

Contracts Manager

25X1 [redacted]

[redacted] 25X1

GROUP 1
Excluded from automatic downgrading
and declassification

P. I. Brunt Carlyn

CONFIDENTIAL

10147
PI PRINT ENLARGER

9618

FIRST MONTHLY REPORT

DATE TO: March 31, 1967

1.0 Activity During Reporting Period

PROJECT

During this reporting period the work schedules have been planned and plotted on spread sheets. The general plan as presented in the proposal bar chart has been reversed to more realistically reflect the work schedules anticipated.

MECHANICAL

The heart of the mechanical configuration is based on the optical path layout. This path length was revised from 54 to 75 inches and is more compact to allow better operator access to the film platen. The film chip accomodation (section 2.7 of the proposal) plays a substantial part in the optical path layout since it requires operator access to the film platen. The external configuration is still as shown in the proposal with the only exception being the film transport not centered over the viewing screen but slightly to the left. The x translation is being incorporated to drive only the platen assembly.

The mechanical design layout is proceeding to incorporate the lens tree assembly, the film drive, the condenser assembly, the printer/process interface and other major sub assemblies.

OPTICAL

With the new optical path length a revised selection of projection lenses has been made. The rotating mirror has been eliminated and the change from viewing to printing mode is accomplished by a flipping mirror. This mirror also serves as a light valve to prevent unwanted viewing screen illumination caused by room ambient light from entering the optical path during printing. The condenser scheme was programed for computer analysis by the optical engineering section. A number of exposure control schemes have been formulated but not finalized. Fine focus will be motorized rather than manually operated.

ELECTRICAL

The control panel and control panel logic was organized. The number of controls was increased to more closely follow the requirements in the proposal and the addendum. The location of the control panel has not been finalized but it appears that part may be on the vertical face and part may be on the horizontal table. A parts list and circuit diagrams from other similar units were being investigated to assist in early expediting of parts.

PRINTER/PROCESSOR

Tentative layout of processing module has been prepared. Interface was discussed with the viewer module design group for common situations of human engineering, optical alignment, mechanical instruction and electrical circuitry, power and signal processing. The layout includes all features listed in the proposal. Film and paper materials have been ordered from Kodak and Anken for experimental purposes. Information on assemblies and parts from the [redacted] platemaster equipment for use in the printer/processor was collected and was investigated. The film

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cassette design and the testing of processing chemistry was started.

1.A Percentage of Work Completed as of Reporting Date

A little better than 10% of the work has been completed as of 3/31/67.

2.0 Planned Activity for Next Reporting Period

PROJECT

On April 20, 1967 the contracting officer representative will visit

25X1 [redacted] Discussions will concentrate on progress of the program and interpretation of technical approaches.

MECHANICAL

The mechanical design layout and optical path layout will be completed. Detail of sub assemblies and parts should be started. The film chip scheme and platen traverse assembly should be worked out.

OPTICAL

The projection lenses will be ordered. The condenser lenses should be finalized with detail drawings and specifications. The exposure control scheme will be completed and incorporated into the control panel logic.

ELECTRICAL

Long lead items will be ordered. The control panel logic will be near completion. Main circuit diagrams are to be initiated.

PRINTER/PROCESSOR

Two trips are planned. One is to [redacted] Business Products for drawings and spare parts from the 20" x 24" Platemaster. The other trip

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25X1 is to [redacted] for discussion of sensitometer and chemistry. Continuation of design layout and experimental work on sensitometer, chemistry and exposure control. An order will be placed for finalized

components. There will be continuation of interface liaison with viewer console group.

3.0 Unresolved Technical Problems

a. The exposure control scheme.

b. The condenser lenses configuration and specifications.

c. The film chip platen and x traverse assembly.

d. Investigation data needed for processing chemistry, sensitometer and photometry.

4.0 Unresolved Contractual Problems

See letter of 29 March 1967 to Contracting Officer of the program

25X1 from [redacted]

5.0 Oral Agreements or Understanding Not Requiring Approval

None

6.0 Oral Agreements or Understanding Requiring Approval

None

7.0 Unresolved Matters

None

8.0 Status of Funds

See separate sheet.

Next 1 Page(s) In Document Exempt

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